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## Innovative and Synergistic Approaches for Multi-Scale Glacier Monitoring Using Remote Sensing Technologies

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Deadline for manuscript  
submissions:

**closed (1 October 2021)**

### Message from the Guest Editors

Potential topics for papers and reviews in this special issue include, but are not limited to:

- Use of innovative, cutting-edge remote sensing technologies, including thermal data and/or newly launched sensors to monitor the current state of glaciers;
- Use of web-based interfaces such as Google Earth Engine, big data and open source coding that incorporate multi-sensor data and facilitate automated mapping of glacier boundaries, surface characteristics and their changes over time;
- Development of cross-disciplinary approaches that allow for holistic glacier assessments;
- Adapting micro-scale image analysis tools routinely used in other fields (e.g. medical imaging, material texture analysis, etc.) for application in larger-scale glacier monitoring;
- Synergy between traditional GIS technologies and recent, advanced technologies (g. machine learning, object oriented approaches, etc.);
- Fusion of multi-sensor optical remote sensing with microwave data;
- Assessments of current uncertainties related to space- and/or air-borne glacier mapping and outlook for future developments.



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# Special Issue



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## Message from the Editor-in-Chief

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